BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUBDIVISION

WARD NO.07, Byatarayanapura

Measurements sheets

Name of work: Package-1, Includes 10 work sof 80.00 lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUBDIVISION

WARD NO.07, Byatarayanapura

Measurements

Name of work: Maintenance of community property including parks in ward no 07 byatarayanapura

Estimate Cost:- 5.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUB DIVISION- WARD 7 BYATARAYANAPURA

Agency **Sri.Gopi reddy**

Name of work: Package-1, Includes 10 work sof 80.00 lakhs : Maintenance of community property including parks in ward no 07 byatarayanapura

Estimated Cost:- 5.00 Lakhs

Sl NO	Description of work	No	L	B	D	QTY		
1	Earth work in surface excavation in ordinary soil for leveling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe line and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications,							
	For chain link fencing							
		2	30.0	0.2	0.3	3.6		
		2	15.0	0.2	0.3	1.8		
					cum	**5.4**	NDP AE(Hort)	
2	Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSR 8.M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1							
	As per	item no-1				5.4		
					cum	5.4	NDP AE(Hort)	
4	Providing and laying in panels plain cement concrete of mix 1:3:6 with OPC cement @ [illegible] kgs with 40mm and down size graded granite metal coarse aggregates @ 0.822cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15cms thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.							
	For chain link fencing							
		2	30.0	0.2	0.2	1.8	2.4	
		2	15.0	0.2	0.2	0.9	1.2	
					cum	**2.7**	3.6 NDP AE(Hort) 29/8	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

5	Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregares @ 0.43 cum with superplastisiser @ 3lts confirming to IS9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification							
	For chain link fencing							
		2	30.0	0.2	0.2	2.4		
		2	15.0	0.2	0.2	1.2		
					cum	**3.6**		NDP AE(Hort) 29/08
6	Supplying and fixing MS rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC 1:2:4 with 2 No. of 16mm dia MS hold fast rods each of length 25 cm, including ocst of all materials, cutting, bending, scaffolding wherever necessary, nicely finishing the welded joints with all leads and lifts and as per the directions of the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting							
	Damaged poles replaced							
		98	1.8			176.4		
					cum	**176.4**		NDP AE(Hort) 16/12
7	Providing and fixing MS block pipe of 38 mm dia of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (MS rectangular poles) and spot welding the chain link with MS block pipe including cost of all materials, wastage in cutting and scaffolding whereever necesssary with all lead and lift as directed by the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop paint							
	Chain link fencing Ht raised							
		98				98.0		
					m	**98.0**		NDP AE(Hort) 16/12

Assistant Executive Engineer.
Kodigehalli Sub Division.
Yelahanka Zone. B.B.M.P.
Bengalore.

8	Providing chainlink fencking 50mm size of 8 guage properly stretched between existing rectangular poles andfixed with suitable bolts and nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts as per the direcdtions of the Engineer in charge of the work and including providing 2 coats of approved quality paint over one coat of shop paint							
		1	46.0		2.1	96.6		
		1	43.0		2.1	90.3		
		1	26		1.5	39.0		
						0.0		
					Sqm	225.9		
				Qty Ltd to		**225.0**		
9	Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complete as per specifications.							
	one-side	1	46.0		2.1	96.6		
		1	43.0		2.1	90.3		
	other side	1	46		1.5	69.0		
		1	43		1.2	51.6		
					Sqm	307.5		
				Qty Ltd to		**300.0**	**sqm**	

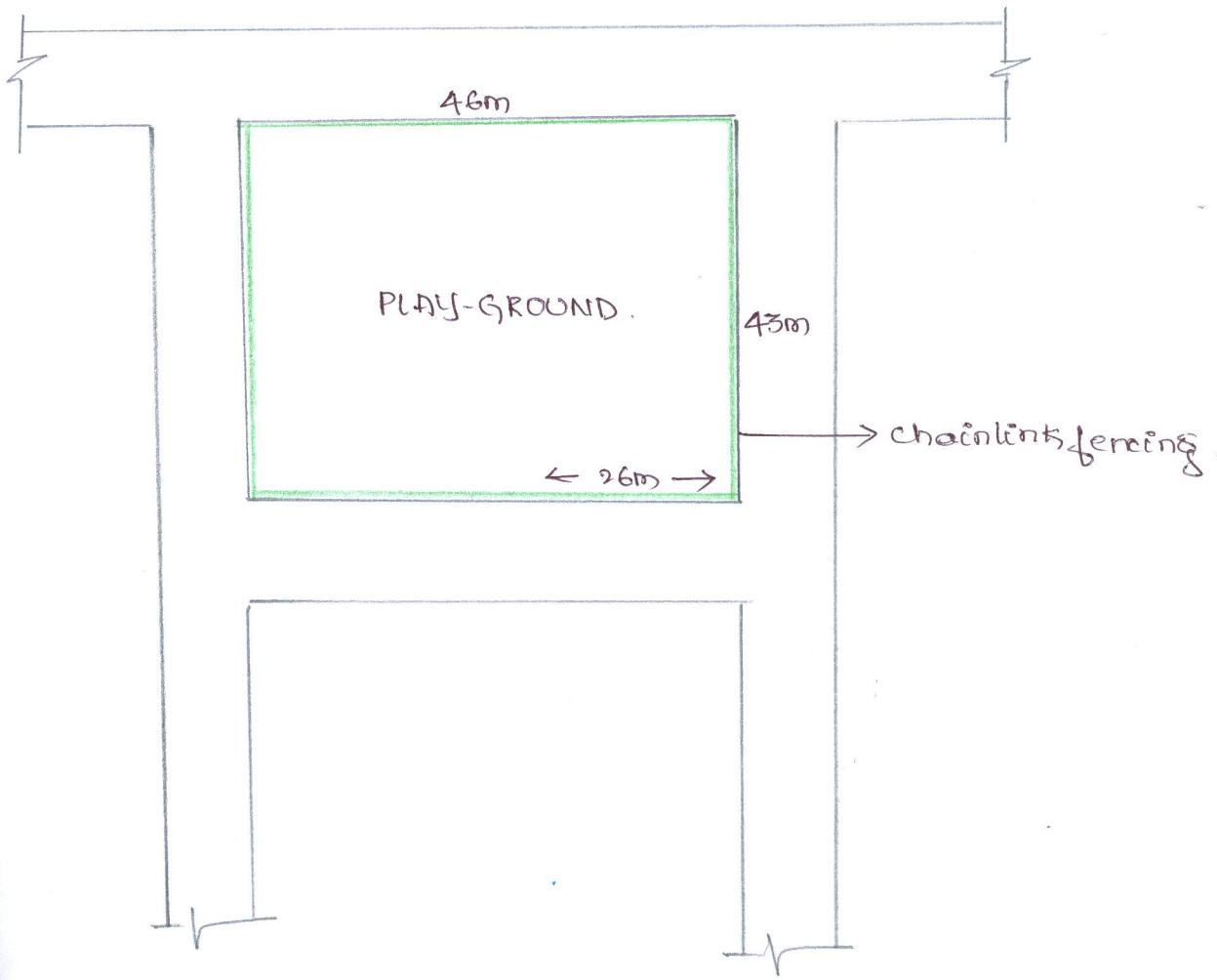
Assistant Engineer A

Ward No.07

Assistant Executive Engineer

Kodigehalli Sub division

NAME OF WORK:- MAINTENANCE OF COMMUNITY PROPERTY INCLUDING PARKS IN WARD NO. 07 BYATARAYANAPURA.



PLAYGROUND IN COFFE BOARD LAYOUT.

Pothili.N.D
AE(W1)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION

YELAHANKA ZONE

MEASUREMENT SHEETS **Name of work:** Package-1, Includes 10 work sof 80.00 lakhs:

Improvements to footpath of vinayaka layout 1st stage main road in ward no.07, Byatarayanapura

Estimated cost:15.00 lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE
KODIGEHALLI SUB DIVISION- WARD 7 BYATARAYANAPURA

Agency **Sri.Gopi reddy**

Name of work: Package-1, Includes 10 work sof 80.00 lakhs: Improvements to footpath of vinayaka layout 1st stage main road in ward no.07, Byatarayanapura

Estimated Cost:- 15.00 Lakhs

Sl NO	Description of work	No	L	B	D	QTY		
1	Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications							
	New culverts							
	4th cross	1	6.00	1.80	1.00	10.80		
	Vinayaka temple -2nd A	1	6.60	1.80	1.00	11.88		
	2nd cross	1	6.00	1.80	1.00	10.80		
	1st A cross	1	7.00	1.80	1.00	12.60		
	1st B cross	1	6.60	1.80	1.00	11.88		
	3rd B cross	1	6.00	1.80	1.00	10.80		
	Desilting of old culverts							
	4thA cross	1	6.00	1.50	0.90	8.10		
	4th A cross H33	1	6.00	1.50	0.90	8.10		
	6th B cross	1	6.00	1.50	0.90	8.10		
	6th A cross	1	6.00	1.50	0.90	8.10		
	6th B cross	1	6.00	1.50	0.90	8.10		
	6th A cross	1	6.00	1.50	0.90	8.10		
	3rd A cross	1	6.00	1.50	0.90	8.10		
						125.46		
				Qty Ltd to		120.15	**cum**	
2	Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification							
	New culverts							
	4th cross	1	6.00	1.50	0.15	1.35		
	Vinayaka temple -2nd A	1	6.60	1.50	0.15	1.49		
	2nd cross	1	6.00	1.50	0.15	1.35		
	1st A cross	1	7.00	1.50	0.15	1.58		
	1st B cross	1	6.60	1.50	0.15	1.49		
	3rd B cross	1	6.00	1.50	0.15	1.35		
						8.60		

	Below kerb	2	250.00	0.45	0.10	**22.50**		
	For bottom correction of old culverts							
	4thA cross	1	6	1.5	0.15	1.35		
	4th A cross H33	1	6	1.5	0.15	1.35		
	6th B cross	1	6	1.5	0.15	1.35		
	6th A cross	0	6	1.5	0.15	0.00		
	6th B cross	0	6	1.5	0.15	0.00		
	6th A cross	0	6	1.5	0.15	0.00		
	3rd A cross	0	6	1.5	0.15	0.00		
						4.05		
						35.15		
				Qty Ltd to		34.65		
3	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.878 cum and fine aggragtes @ 0.53cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications							
	New culverts							
	4th cross	2	6.00	0.45	0.15	0.81		
	Vinayaka temple -2nd A	2	6.60	0.45	0.15	0.89		
	2nd cross	2	6.00	0.45	0.15	0.81		
	1st A cross	2	7.00	0.45	0.15	0.95		
	1st B cross	2	6.60	0.45	0.15	0.89		
	3rd B cross	2	6.00	0.45	0.15	0.81		
						5.16		
	For bottom correction of old culverts							
	4thA cross	1	6	0.45	0.15	0.41		
	4th A cross H33	1	6	0.45	0.15	0.41		
	6th B cross	1	6	0.45	0.15	0.41		
						1.22		
	For coping on side walls of old culverts							
	4thA cross	2	3	0.45	0.10	0.27		
	4th A cross H33	2	3	0.45	0.10	0.27		
	6th B cross	2	3	0.45	0.10	0.27		
	6th A cross	2	3	0.45	0.10	0.27		
	6th B cross	2	3	0.45	0.10	0.27		
	6th A cross	2	3	0.45	0.10	0.27		
	3rd A cross	2	3	0.45	0.10	0.27		
						1.89		
					8.22	**8.26**		

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore

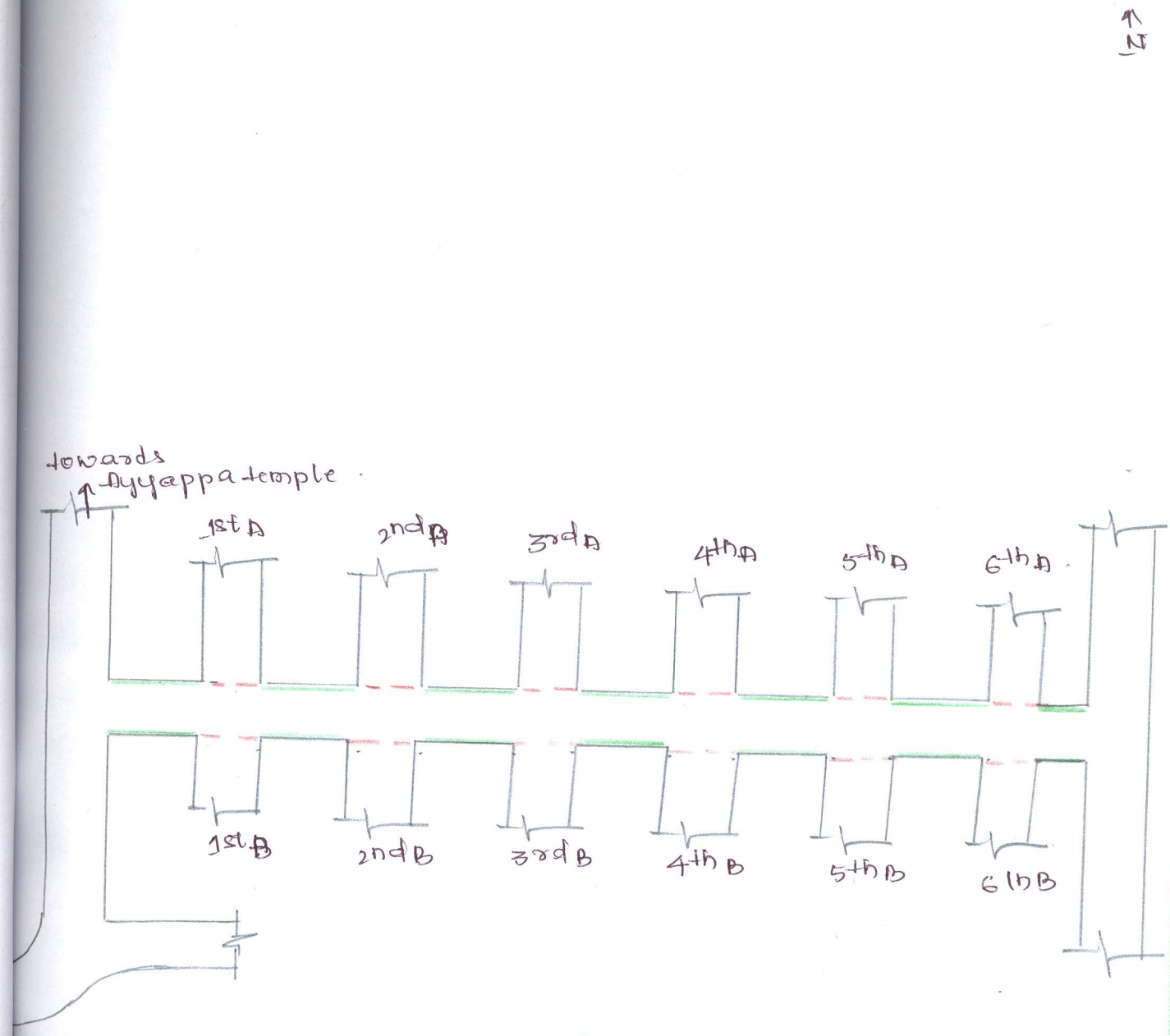
4	Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.								
	New culverts								
	4th cross	2	6	0.45	0.6	3.24			
	Vinayaka temple -2nd A	2	6.6	0.45	0.6	3.56			
	2nd cross	2	6	0.45	0.6	3.24			
	1st A cross	2	7	0.45	0.6	3.78			
	1st B cross	2	6.6	0.45	0.6	3.56			
	3rd B cross	2	6	0.45	0.6	3.24			
						20.63			
	Repairs to damaged portion of side walls								
	4thA cross	2	3	0.45	0.2	0.54			
	4th A cross H33	2	3	0.45	0.4	1.08			
	6th B cross	2	3	0.45	0.2	0.54			
	6th A cross	2	3	0.45	0.6	1.62			
	6th B cross	2	3	0.45	0.6	1.62			
	6th A cross	2	3	0.45	0.2	0.54			
	3rd A cross	2	3	0.45	0.6	1.62			
						7.56			
						28.19			
5	Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4								
	New culverts								
	4th cross	2	6		0.6	7.20			
	Vinayaka temple -2nd A cross	2	6.6		0.6	7.92			
	2nd cross	2	6		0.6	7.20			
	1st A cross	2	7		0.6	8.40			
	1st B cross	2	6.6		0.6	7.92			
	3rd B cross	2	6		0.6	7.20			
						45.84			
	Repairs to damaged portion of side walls								
	4thA cross	2	3		0.2	1.20			
	4th A cross H33	2	3		0.4	2.40			
	6th B cross	2	3		0.2	1.20			
	6th A cross	2	3		0.6	3.60			
	6th B cross	2	3		0.6	3.60			
	6th A cross	2	3		0.6	3.60			
	3rd A cross	2	3		0.6	3.60			
						19.20			
						65.04			
				Qty Ltd to		64.8	Sqm		

6	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per specification (Data Rate)							
	New culverts							
	4th cross	10	1.5	0.6		9.00		
	Vinayaka temple -2nd A cross	11	1.8	0.6		11.88		
	2nd cross	11	1.8	0.6		11.88		
	1st A cross	11	1.8	0.6		11.88		
	1st B cross	11	1.8	0.6		11.88		
	3rd B cross	10	1.8	0.6		10.80		
						67.32		
	Missing slabs to old culverts							
	4thA cross	3	1.5	0.6		2.70		
	4th A cross H33	2	1.8	0.6		2.16		
	6th B cross	2	1.8	0.6		2.16		
	6th A cross	2	1.8	0.6		2.16		
	6th B cross	2	1.8	0.6		2.16		
	6th A cross	2	1.8	0.6		2.16		
	3rd A cross	2	1.8	0.6		2.16		
						15.66		
						82.98		
				Qty ltd to		**81.00**	Sqm	
7	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 of size 450x150x500 mm and finished with CM 1:3 plastering and finishing cutting etc., complete							
	Vinayaka Layout main road							
	LHS	525				525.00		
	RHS	515				515.00		
						1040.00	Nos	
8	Providing and applying ready mix priming coat over ocncrete / masonry, / asbestos cement sheet / plastered surfaces includding preparing the surface after thorougly cleaning of oil, grease, dirt and other foreign matter and sand papering including cost of materials, labour compelte as per specifications.							
	Vinayaka Layout main road							
	LHS	525		0.45		236.25		
	RHS	515		0.45		231.75		
						468.00	sqm	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

9	Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1							
			Page No 1			120.15	cum	NDP DE
	Assistant Engineer		A	Assistant Executive Engineer				
	Ward No.07			Kodigehalli Sub division				

NAME OF WORK:- IMPROVEMENTS TO FOOTPATH OF VINAYAKA LAYOUT 1ST STAGE MAIN ROAD IN WARD NO-07, BYATARAYANAPURA.



AE(WI)

BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION

YELAHANKA ZONE

MEASUREMENT SHEETS

Name of work: Package-1, Includes 10 work sof 80.00 lakhs:

Maintenanace of general public toilets in ward No.07 byatarayanapura

Estimated Cost:- 5.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE
KODIGEHALLI SUB DIVISION- WARD 7 BYATARAYANAPURA

Agency **Sri.Gopi reddy**

Name of work: Package-1, Includes 10 work sof 80.00 lakhs : Maintenanace of general public toilets in ward No.07 byatarayanapura

Estimated Cost:- 5.00 Lakhs

Sl NO	Description of work	No	L	B	D	QTY		
1	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications I-2					7.65		
	For Laying UGD line- Zonal office							
		1	50.0	0.6	0.8	22.5		24.00
					cum	**22.5**	ADD AE(RS) 22/8/19	
2	Providing anf fixing M.S Grill work for windows and ventilators weighing 21 Kg/sqm using M.S Flats or MS square rods, or combination of M.S Falts and square roads as per approved design drawing inclduing cuttinf steel sections an dwelding the design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM o fmachinery complete. I-66							
	windows repairs							
	1st floor Zonal office	4	0.7	1.4		3.5	Ltr/kg 18/12	3.92
		1	2.4	1.4		3.2		3.36
					Kg	**6.8**		7.28
				Qty Ltd to		4.32	ADD AE(RS) 16/12	

3	PVC DOOR SHUTTER Supply and fixing of dorrs shutter made of rigid PVC extruded hollow section of 20mm x 200mm with the wall thickness of 1.0mm +/0.1mm equally divided into 4nis with tongue and groove locking arrangements. The shutter frame is amde of 58*24mm with the wall thickness of 1.5mm+/0.15mm section metricut and joined at 4 corners with 125mm x 225mm plastic brackets. The shutter shall be horizontally reinforced with 2 nos of 8mm PVC rods. Teak wood battons shall be reinforced inside .					1.67		
	1st floor Zonal office	1	0.75	2.1		1.6		
	GF Zonal office	7	0.8	2.1		11.0		
						12.6	AIDP AE(1st) 16/12	
4	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.							
	GF Zonal office TOILET REPAIRS	1	39		2.1	81.9		
	1ST FLOOR	1	13		2.6	33.8		
						115.2	AIDP AE(1st) 16/12	
5	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.							
	GF Zonal office TOILET REPAIRS	1	39		1.5	58.5		
						58.5	AIDP AE(1st) 16/12	
				Qty Ltd to		56.1	Sqm	

11.76

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

6	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.					1-69		
	GF Zonal office TOILET REPAIRS	1	39		0.6	23.4		
	1st floor Passag	1	19.4		2.6	50.4		
	Passage	1	7.1		2.6	18.5		
						92.3		
	Deductions							
	D1	1	1.05		2.1	2.2		
	D2	1	1.05		2.1	2.2		
	D3	1	1.1		2.1	2.3		
	D4	1	1.1		2.1	2.3		
	D5	1	1.1		2.1	2.3		
	W1	4	0.65		1.35	3.5		
	W2	3	2.4		1.35	9.7		
	W3	1	1.2		1.35	1.6		
	W1	2	1.2		1.35	3.2		
					(-)	**29.4**		
						62.9		
				Qty Ltd to		**46.9**	NDP AE(Civil) 16/12	
7	Providing ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. ceramic tiles 400X400X20mm					3-70		
	GF Zonal office TOILET REPAIRS	1	39	1.2		46.8		
	outside area	1	30	1.2		36.0		
	1st floor Passag	1	14.1	1.5		21.2		
		10	1.8	1.5		27.0		
	ward7 office	3	1.8	1.2		6.5		
						137.4	NDP JE(Civil) 16/12	

Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

8	Providing ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment, including cost of materials, labour, curing, complete as per specifications. ceramic tiles 15X15cms 6mm thick				I-71		
	Wrinals area	1	2.1	0.9	1.9		
	outside	9	3.1	1.2	33.5		
	ward 7 office	1	2.5	1.2	3.0		
					38.4		
9	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement and testing of joints complete. (internal work exposed on wall) - 25mm nominal OD pipes.						
(1)	First floor-20mm dia	1	30	I-72	30.0		
(2)	seconf floor-25mm dia	1	30	I-73	30.0		
(3)	ground floor-32mm dia	1	29	I-74	29.0		
					89.0		
10	Providing white vitreous china clay indian pattern squatting urinals with white glazed foot rests of approved quality and make conforming to ISI specifications and fixing in position with M-15 as directed of size 50.8 cms X 38 cms X 10.16 CMS - A grade(Rate includes cost of all materials, and conveyance to work spot).						
	Ground floor	4			4.0		
					4.0		
11	Providing and fixing CI Nahani trap of approved make conforming to ISI specifications and construction of Cistern in M-15 as per directions (Rate is inclusive of cost of materials and fixtures and conveyance of materials to work spot).						
	Ground floor	5			5.0		
					5.0		

12	Providing and fixing in position brass bib cock of approved quality 15mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.						
	Ground floor	15			15.0		
					15.0		
13	Constructing brick masonry inspection chamber 455x610mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications.						
	Ground floor	4			4.0		
					4.0		
14	Providing and fixing white vitreous china clay, water closet European type (Pedestal type, P-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level, P.V.C flushing cistern (all are approved make) with fittings, C.I/M.S brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with special and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, including cost of materials, labour complete as per specification.						
	GF/ FF	5			5.0		
					5.0		
15	Providing and fixing white vitreous china clay, flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets, 32 mm C.P. brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labour complete as per specifications. Specification No. KBS 11						
	GF/ FF	3			3.0		
					3.0		

16	Providing and placing on terrace, polyethylene water storage tanks as per IS 12701 : 1996 with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 1000 litre capacity)						
	TF	2			2.0		
					2.0	NDP AE(Ele)	
17	Providing and finishing external walls in two coats over one coat of 100% acrylic silicon glazed primer with antifungal paint for top coat of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.						
	Qty vide Item No.04 page 1				115.2		
					115.2	NDP AE(Ele)	
18	Providing and installing at site of work 63mm (0.662) PVC Pipes of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete						
		1	49		49.0		
					49.0	NDP AE(Ele)	
19	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications						
		1	49	0.6	0.75	22.05	
						22.05	NDP AE(Ele)

Assistant Engineer

Ward No.07

Assistant Executive Engineer
Kodigehalli Sub division

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

NAME OF WORK:- MAINTENANCE OF GENERAL PUBLIC TOILETS IN WARD NO. 07, BYATARAYANAPURA.

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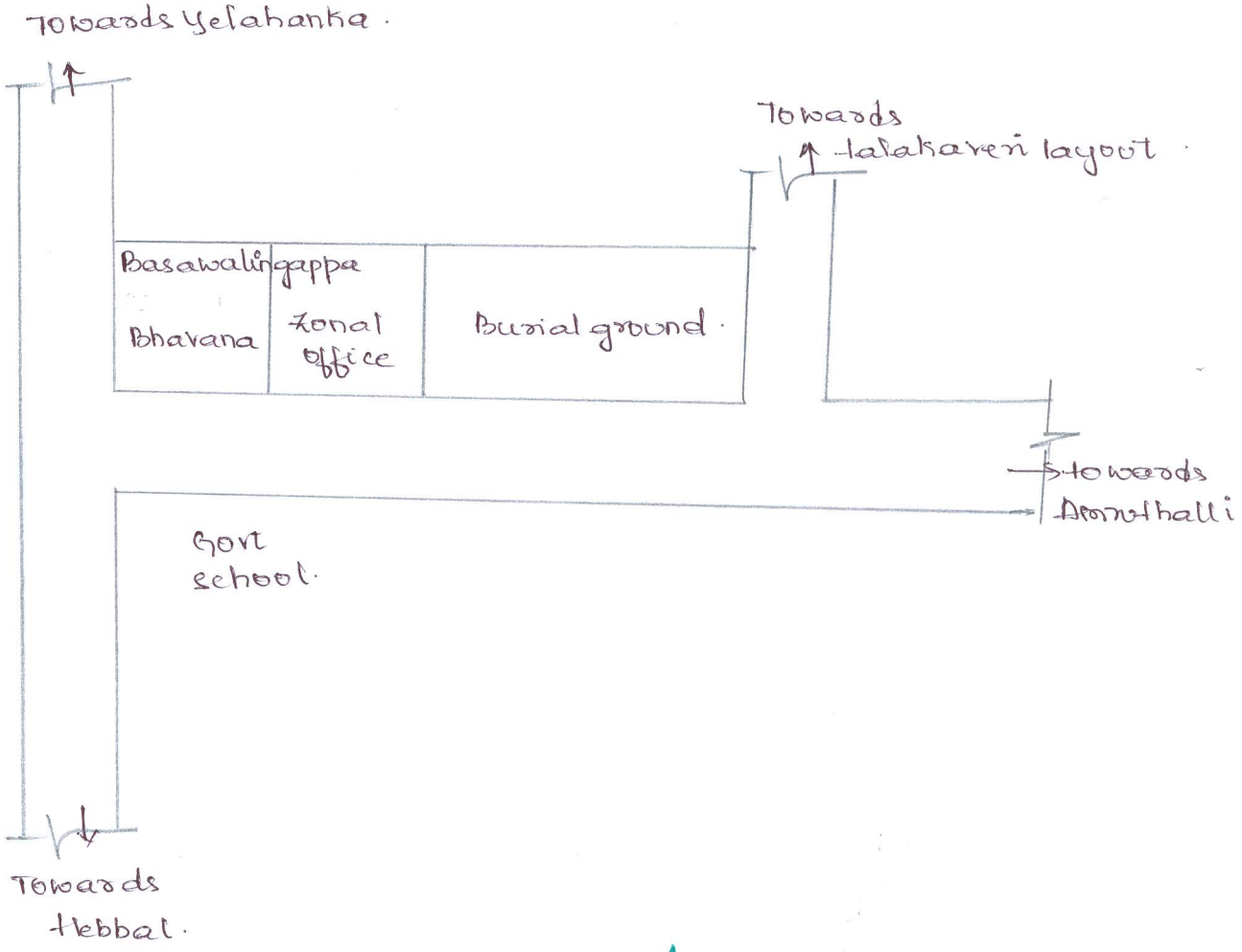


Assistant Executive Engineer.
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Dy. Hlth. Off. N.D
AE(WT)

BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION

YELAHANKA ZONE

MEASUREMENT SHEETS

Name of work: Package-1, Includes 10 work sof 80.00 lakhs:
Maintenance of crematorium burial grounds and office maintenance in ward No.07 byatarayanapura.
Estimated Cost:- 5.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUB DIVISION- WARD 7 BYATARAYANAPURA

gency **Sri.Gopi reddy**

ame of work: Package-1, Includes 10 work sof 80.00 lakhs : Maintenance of crematorium burial rounds and office maintenance in ward No.07 byatarayanapura.

stimated Cost:- 5.00 Lakhs

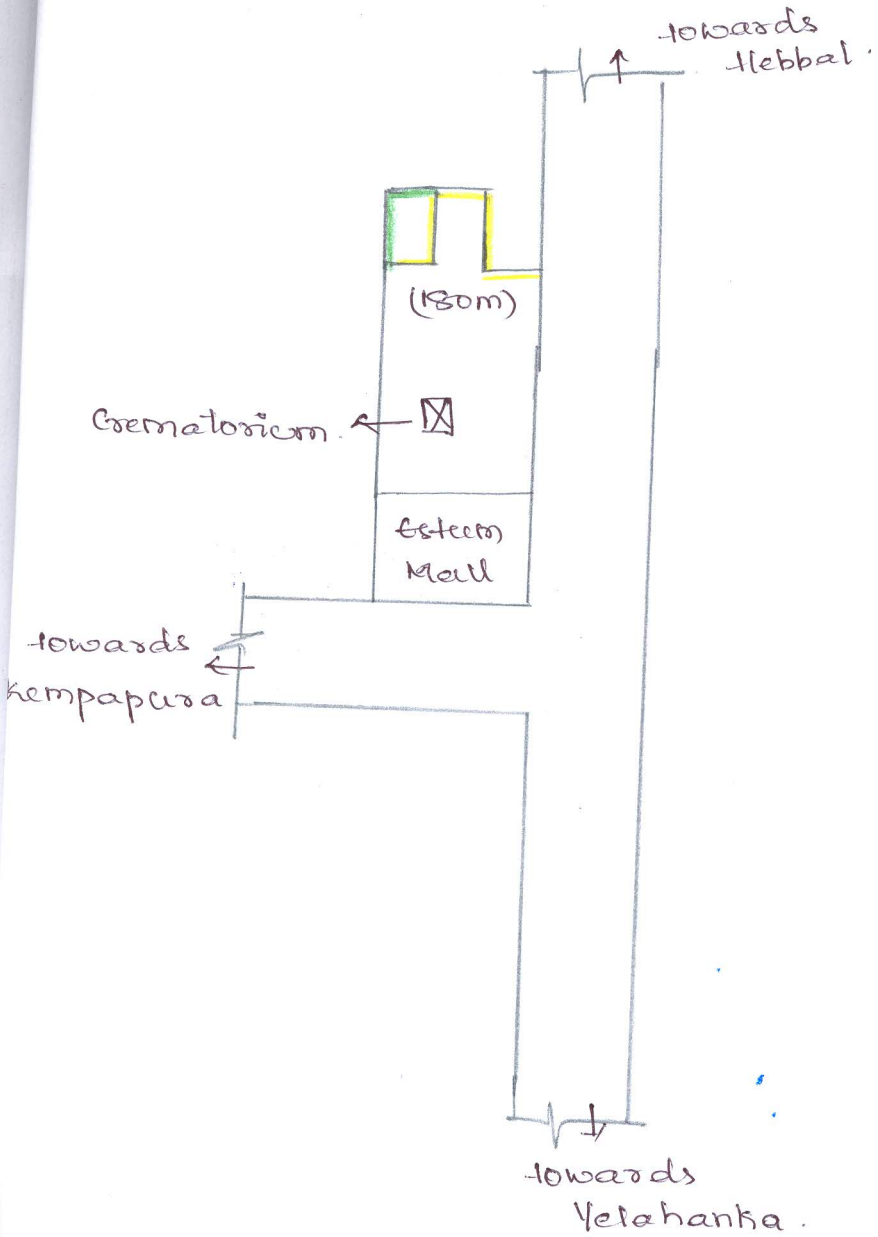
Sl NO	Description of work	No	L	B	D	QTY		
1	Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications							
	outside	1	8.00	4.00	0.15	4.8		
	inside	1	5.00	10.00	0.15	7.5		
					cum	**12.3**	AIDP AE(Civil) 16/12	
7	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications							
	outer side of the compound							
		1	30.0		1.6	48.0		
		1	30.0		1.6	48.0		
		1	30.0		1.6	48.0		
		1	30.0		1.6	48.0		
		1	30.0		1.6	48.0		
		1	30.0		1.6	48.0		
					sqm	**288.0**	AIDP AE(Civil) 16/12	
8	Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications.							
	outer side of the compound							
		1	30.0		1.6	48.0		
		1	30.0		1.6	48.0		
		1	30.0		1.6	48.0		
		1	30.0		1.6	48.0		
		1	30.0		1.6	48.0		
		1	30.0		1.6	48.0		
					sqm	**288.0**	AIDP AE(Civil) 16/12	

9	Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications.							
	outside							
		1	40.0		4.0	160.0		
		1	11.0		10.0	110.0		
					sqm	269.5		
10	Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification							
					cum	12.3		

Assistant Engineer A
Ward No.07

Assistant Executive Engineer
Kodigehalli Sub division
Yelahanka Zone, B.B.M.P.
Bangalore.

NAME OF WORK:- MAINTENANCE OF CREMATORIUM BURIAL GROUNDS AND OFFICE MAINTENANCE IN WARD NO:07.



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- plastering to compound wall.

AE(WZ)

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

(5)

BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUBDIVISION

WARD NO.07, Byatarayanapura

Measurements

Name of work: Desilting of Storm Water Drains in ward no:07 Byatarayanapura.

Estimate cost: 10.00 lakhs.

(17)

BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUB DIVISION- WARD 7 BYATARAYANAPURA

ency **Sri.Gopi reddy**

me of work: Package-1, Includes 10 work sof 80.00 lakhs : Desilting of Storm Water Drains in ward :07 Byatarayanapura

timated Cost:- 10.00 Lakhs

l O	Description of work	No	L	B	D	QTY		
1	Dismantling of existing structures like culverts,bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry.B. Rubble stone masonry in cement mortar							
	Near Anganawadi-Byatarayanapura	1	2.00	0.90	1.20	2.2		
		1	5.00	1.20	0.60	3.6		
		1	2.00	0.90	0.60	1.1		
					cum	**6.75**		
2	Excavation and removal of silt and silt mixed with sand in slussy condition from canal bed including disposing off the same in spoil bank or on the canal embankment in layers as directed etc., complete with lead upto 50 m and all lifts					6.9.		
	From Ayyappa temple to Bata showroom							
	0-30	1	30.00	2.00	0.60	36.0		
	30-60	1	30.00	2.00	0.60	36.0		
	60-90	1	30.00	2.00	0.90	54.0		
	90-120	1	30.00	2.00	0.60	36.0		
	120-150	1	30.00	1.60	0.90	43.2		
	150-180	1	30.00	1.60	0.60	28.8		
	180-210	1	30.00	1.60	0.60	28.8		
	210-240	1	30.00	4.00	0.60	72.0		
	240-270	1	30.00	4.00	0.75	90.0		
	270-300	1	30.00	4.00	0.60	72.0		
	300-330	1	30.00	4.00	0.90	108.0		
	330-360	1	30.00	4.00	0.60	72.0		
	360-390	1	30.00	4.00	0.60	72.0		

748.80

	390-420	1	30.00	4.00	0.60	72.0		
	420-450	1	30.00	4.00	0.60	72.0		
	450-480	1	30.00	4.00	0.60	72.0		
	480-510	1	30.00	4.00	0.60	72.0		
	510-540	1	30.00	4.00	0.90	108.0		
	540-570	1	30.00	4.00	0.90	108.0		
	570-600	1	30.00	4.00	0.90	108.0		
	600-630	1	30.00	4.00	0.90	108.0		
	630-660	1	30.00	4.00	0.90	108.0		
	660-690	1	30.00	4.00	0.60	72.0		
	690-710	1	20.00	4.00	0.55	44.0		
					cum	**1689.60**		
6	Stone masonry work in cement mortar 1:3 for substructure complete as per drawing and technical specification B. Ramdom Rubble Masonry (Coursed/uncoursed) MORTH specifications No.1405.4 with available stones							
		1	2	0.9	0.45	0.8		
		1	5	1.2	0.4	2.4		
		1	2	0.9	0.45	0.8		
						4.02		
7	Stone masonry work in cement mortar 1:3 for substructure complete as per drawing and technical specification B. Ramdom Rubble Masonry (Coursed/uncoursed) MORTH specifications No.1405.4 with New stones							
		1	5	0.6	0.9	2.7		
						2.70		
8	Providing Rulled pointing to course stone masonry with cement mortar 1:3, 20mm deep, after raking joints o depth of 20mm nicely lining , including cost of materials, labours, curing complete asper specification.							
		1	2	0.9	0.45	0.8		
		1	5	1.2	0.4	2.4		
		1	2	0.9	0.45	0.8		
		1	5	0.6	0.9	2.7		
	worn out length	2	15	0.6	1.8	32.4		
						39.12		

Assistant Engineer A
Ward No.07

Assistant Executive Engineer
Kodigehalli Sub division
Yelahanka Zone, B.B.M.P.,
Bangalore.